"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

On discontinuous extremum control ...

where $M^*(e^{-D})$ is a polynomial in e^{-D} with constant coefficients, constructed with the help of a second impulse filter, u_n is the discrete value of the coordinate of the sensitive element in the n-th interval of time, $Q^*(e^{-D})$ is a polynomial in e^{-D} with constant coefficients, y_n is the discrete value of the coordinate of the extremum function which can be varied on the output of the object, α_5 is a constant coefficient, and D is the usual operator. Suitable schematic circuits are constructed, in which the time lag in the controlled process is compensated by time-delay elements in the control circuits. There are 7 figures and 5 Soviet-bloc references.

ASSOCIATION: Instytut lyvarnoho vyrobnytstva AN URSR (Institute of Foundry Production of the AS UkrSSR)

SUBMITTED: March 3, 1960

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

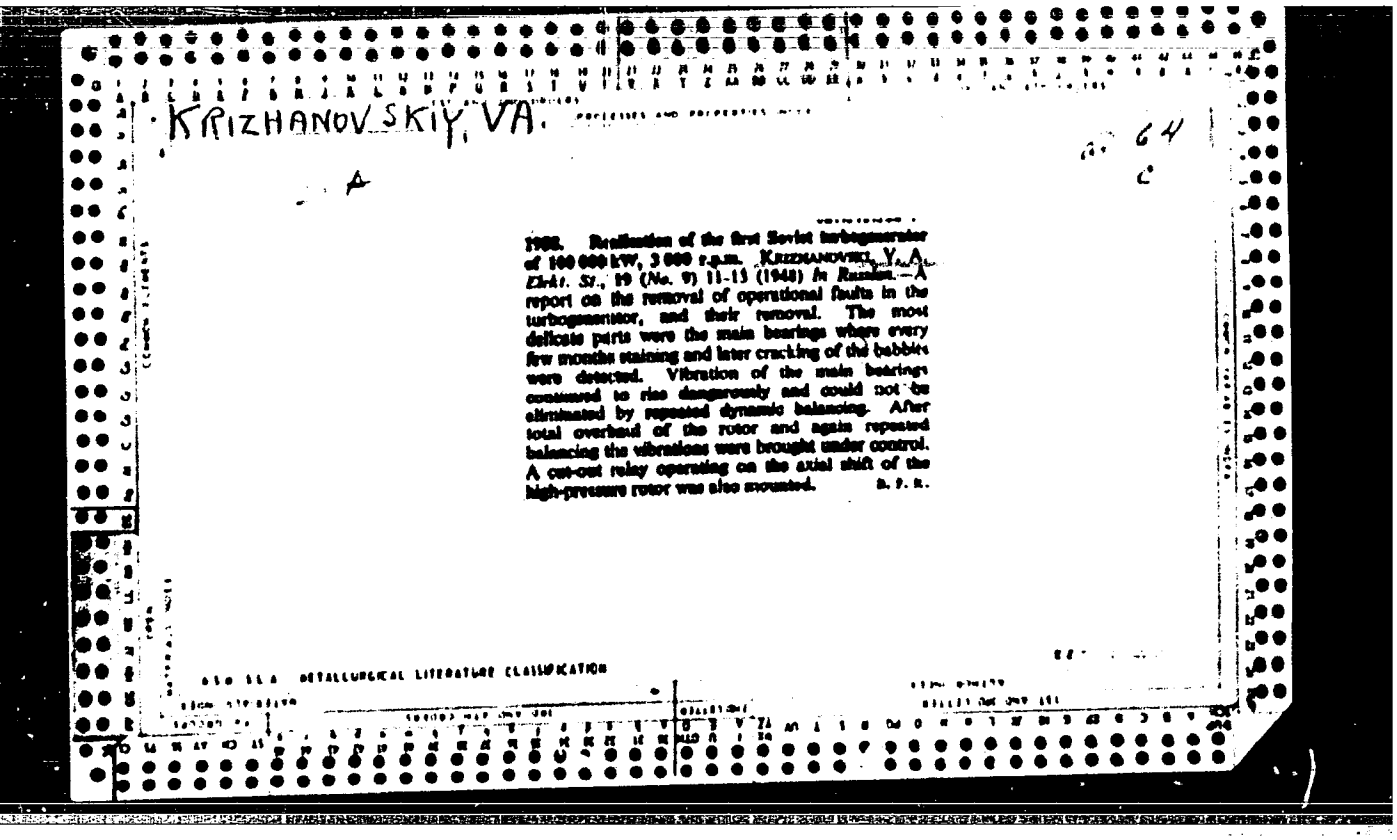
"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANOVSKI, O.N.; VRUBLEVSKI, V.I.; ANTONENKO, V.T.

Complex mechanization and automation of cupola furnace. Tekhnika 10 no.10: 33-35 '61.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6



KRIZHANOVSKIY, VA.

64

1988. Installation of the first Soviet turbogenerator of 100 000 kW, 3 000 r.p.m. KRZHANOVSKI, V. A. *Elektr. St.*, 19 (No. 9) 11-15 (1948) *In Russian.*—A report on the removal of operational faults in the turbogenerator, and their removal. The most delicate parts were the main bearings where every few months staining and later cracking of the babbitt were detected. Vibration of the main bearings continued to rise dangerously and could not be eliminated by repeated dynamic balancing. After total overhaul of the rotor and again repeated balancing the vibrations were brought under control. A cut-out relay operating on the axial shift of the high-pressure rotor was also mounted. S. P. R.

USSR METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

PROKOPENKO, A.G., inzh.; KRUSHEL, G.Ye., doktor tekhn. nauk; KRIZHANOVSKIY, V.A., inzh.

Starting a 150 MW unit-plan installation. Teploenergetika 5 no.2:8-18 F '58. (MIRA 11:2)

1. Yuzhnoye otdeleniye Gosudarstvennogo tresta po organizatsii i ratsionalizatsii elektrostantsiy, L'vovskiy politekhnicheskiy institut i Cherepetskaya gosudarstvennaya rayonnaya elektricheskaya stantsiya.
(Electric power plants--Equipment and supplies)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANOVSKIY, V.A.

Functional diagnosis and surgical treatment of nodular endemic goiter; from data on the uptake of radioactive iodine. Khirurgiia 36 no. 5:41-46 My '60. (MIRA 14:1)
(GOITER) (IODINE—ISOTOPES)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANOVSKIY, V.A. (Chelyabinsk)

Clinical use of radioactive iodine in the diagnosis of certain diseases of the thyroid gland. Klin.med. 38 no.11:13-17 N '60. (MIRA 13:12)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. G.D. Obraztsov) Chelyabinskogo meditsinskogo instituta (dir. - dotsent P.M. Tarasov).

(IODINE--ISOTOPES) (THYROID GLAND--DISEASES)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

PRODOLOBOV, N.V.; GERNER, V.F.; DOBRIN, B.Yu.; KIRSANOV, G.P.; PARSHIKOV, M.Ya.; PETUKHOV, M.I.; KRIZHANOVSKIY, V.A.; YAMCHUK, N.I.

Abstracts. Sov.med. 26 no.6:135-137 Je '62. (MIRA 15:11)

1. Iz Tyumenskoy gorodskoy infektsionnoy bol'nitsy (for Prodolobov). 2. Iz sel'skoy uchastkovoy bol'nitsy sovzhoza "Chernaya" Solikamskogo payonnogo otdela zdravookhraneniya (for Gerner). 3. Iz kafedry gospital'noy terapii Luganskogo meditsinskogo instituta (for Dobrin). 4. Iz respublikanskoy klinicheskoy bol'nitsy Mordovskoy ASSR (for Kirsanov, Parshikov). 5. Iz propedevticheskoy khirurgicheskoy kliniki Kuybyshevskogo meditsinskogo instituta (for Petukhov). 6. Iz gospital'noy khirurgicheskoy kliniki i kafedry patologicheskoy anatomii Chelyabinskogo meditsinskogo instituta (for Krizhanovskiy, Yamchuk).

(MEDICINE—ABSTRACTS)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANOVSKIY, V. A.; KOVALEV, M. M.; LOKTIONOV, I. A.

Tuberculosis of the thyroid gland. Probl. tub. 40 no.5:106-109 '62. (MIRA 15:7)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. G. D. Obraztsov) i kafedry patologicheskoy anatomii (zav. - prof. A. I. Vorotilkin) Chelyabinskogo meditsinskogo instituta (rektor - dotsent P. M. Tarasov)

(THYROID GLAND--TUBERCULOSIS)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

ZAMARAYEV, Ye.P. (Chelyabinsk, Ufimskiy trakt, d.51, kv.16);KRIZHANOVSKIY,V.A.

Thrombosis of the major vessels in fractures of the long tubular bones. Ortop. travm. i protez. 24 no.6:36-38 Je'63 (MIRA 16:12)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. G.D. Obraztsov) Chelyabinskogo meditsinskogo instituta (rektor - dotsent P.M.Tarasov) i Oblastnoy klinicheskoy bol'nitsy.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANOVSKIY, V.A.; KOVALEV, M.M.; DOL'NIKOV, Ye.M.

Developmental anomaly of the thyroid gland and cancer. Khirurgiia 40 no.12:25-30 D '64. (MIRA 18:3)

1. Gospital'naya khirurgicheskaya klinika (zav.- prof. G.D. Obraztsov) i kafedra patologicheskoy anatomii (zav.- prof. A.I. Vorotilkin) Chelyabinskogo meditsinskogo instituta.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANOVSKIY, V.A.

Hemorrhages following surgery for thyrotoxic forms of goiter. Probl. endok. i gorm. 11 no.6:22-25 N-D '65. (MIRA 18:12)

1. Gospital'naya khirurgicheskaya klinika (zav. - prof. G.D. Obraztsov) Chelyabinskogo meditsinskogo instituta na baze Chelyabinskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR N.S.Klyukov).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

LEVIN, E.I.; LEVASHOV, M P.; NECHAYEVSKIY, G.S.; KRIZHEVSKIY, V.M., TESLER, P.A.; KOBRINSKIY, G.S.

Large-panel buildings of standardized autoclaved elements. Transp. stroi. 15 no.5:23-26 My '65. (MIRA 18.7)

1. Odesstransstroy (for Krizhevskiy). 2. Nauchno-issledovatel'skiy institut betona i zhelezobetona Gosstroya SSSR (for Kobrinskiy).

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

USSR/Medicine-Nervous System Oct 48
Medicine-Vibration, Mechanical, Effect of

"Experimental Studies on the Action of Vibrations on the Human Organism," D. A. Kribanskaya, Phys Dept, Leningrad Sci Res Hygiene and Sanitation Inst, 6 pp

"Vrach Delo" No 10

Conducted experimental tests on action of mechanical vibrations on the human vegetative nervous system. Concluded that vibrations cause a distinct vegetative reaction in most human organisms according to their frequency, amplitude, and exposure time (10-15 min) which approximate

49/49T68

USSR/Medicine-Nervous System (Contd) Oct 48

the more common vibrations experienced in urban transportation. Selected three groups of people who gave different vegetative reactions. Illustrations show a vibration plane and curves of vegetative reactions.

49/49T68

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

RIK, G.R., KRIZHANSKIY, L.M.; DOBROMRAVOVA, A.N.

Photographic recording camera used in the MS mass spectrometer.
Prib.i tekh.eksp.no.2:90-91 S-O '56. (MLRA 10:2)

1. Radiyevyy institut im.V.G.Khlopina AN SSSR.
(Mass spectrometry)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANSKIY, L.M.

AUTHOR: KRIZHANSKIY,L.M., MALYY,YA., MURIN,A.N. PA - 2311
PREOBAZHENSKIY,B.K.

TITLE: On the Yield of Rare Earths on the Occasion of the Fissioning of Pu^{239} by Reactor Neutrons. (Russian)

PERIODICAL: Atomnaia Energiia, 1957, Vol 2, Nr 3, pp 276 - 277 (U.S.S.R.)
Received: 4 / 1957 Reviewed: 4 / 1957

ABSTRACT: At first some previous works dealing with this subject are discussed. Also the authors of this work determined the yields of the fission products of Pu^{239} mass-spectrometically. On this occasion the precipitation of the nitric acid plutonium solution and its fission products were subjected to direct mass- spectroscopic investigation.

The values thus obtained of the relative yields of the isotopes of cerium, neodymium, samarium as well as of cesium are shown together in tables and compared with data obtained by D.WILES et al., Can.J.Chem. 34, 227 (1956). Agreement is good in all cases with the exception of Ce^{140} and Cs^{133}. The by far lower value for the yield of Cs^{133} found here can be explained by contamination by natural cesium in the experiments carried out by WILES as well as by the partial loss of the predecessors of Cs^{133} (viz. of Xe^{133}) in the experiments investigated here. Such an explanation is, however, not suited for Ce^{140}, because among its predecessors long-lived, gaseous or volatile elements are lacking.

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PA - 2311

On the Yield of Rare Earths on the Occasion of the Fissioning of Pu^{239} by Reactor Neutrons.

A detailed discussion of results from the point of view of the theory by A.C.PAPPAS must be deferred until the end of the additional experiments. In spite of this the existence of a fine structure within the domain of the masses 135 - 137 can be taken for granted if Pu^{239} is fissioned by thermal neutrons. Three tables contain the relative yields of the isotopes of cerium and neodymium, samarium as well as of cesium. (1 illustration and 3 tables).

ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED: 29.9.1956.
AVAILABLE: Library of Congress.

Card 2/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANSKIY L.M.

~~Krizansky L.M.~~

CZECHOSLOVAKIA/Nuclear Physics - Nuclear Reaction C-5

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 503

Author : Krizansky, L.M., Maly, J., Murin, A.N., Preobrazensky, B.K.
Inst :
Title : Yield of Rate Earth Isotopes Upon Fission of Pu^{239} by Reactor Neutrons.

Orig Pub : Jaderna energie, 1957, 3, No 5, 139-140

Abstract : Translation from the Russian; see Referat Zhur Fizika, 1957, No 10, 24882.

Card 1/1

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZANSKIY, L. M.

MURIN, A. N., ERSHLER, B. V., KUKAWADZE, G. M., ANIKHINA, M. P., GORSHKOV, V. K., IVANOV, R. N., KRIZANSKIY, L. M. and REFORMATSKIY, I. A.

"Mass-Spectrometric Study of U^{233}, U^{235} and Pu^{239} Fission Products."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANSKIY, L.M., Cand Phys-Math Sci - (diss) "Mass-spectrometric study of the discharge of fragments of the division of plutonium - 239 by reactor neutrons." Len,1958. 7 pp with graphs. (Acad Sci USSR, Radium Inst im V.G. Khlopin.) 110 copies.
(KL,12-58, 95)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANSKIY, L. M.

AUTHORS: Krizhanskiy, L. M., Murin, A. N., 89-1-11/29

TITLE: Sr^{90} and Sr^{88} Yields in the Pu^{239} Fission by Reactor Neutrons (Vykhody Sr^{90} i Sr^{88} pri delenii Pu^{239} reaktornymi neytronami)

PERIODICAL: Atomnaya Energiya, 1958, Vol. 4, Nr 1, pp. 77-79 (USSR)

ABSTRACT: By means of a mass spectrometer the yields of Sr^{90} and Sr^{88} were determined after the Pu^{239} sample had been exposed to an integral neutron flux of $2,7.10^{20}$ neutrons. The strontium ratio measured was: $Sr^{90} : Sr^{88} : Sr^{86} = 1 : (0,687 \pm 0,005) : (0,0094 \pm 0,004)$
If this measurement is carried out following the known absolute yield of Nd^{143} with 5,90%, the following absolute yields are obtained in %:

Sr^{90}	2,28
Sr^{88}	1,35

There are 2 tables, and 9 references, 2 of which are Slavic.

SUBMITTED: August 27, 1957

AVAILABLE: Library of Congress

Card 1/1

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

SOV/48-22-7-9/26

AUTHORS: Dobronravova, A. N., Krizhanskiy, L. M., Murin, A. N., Pokrovskiy, V. N.

TITLE: Mass Numbers of Dysprosium Isotopes With a Neutron Deficit (Massovyye chisla neytronodefitsitnykh izotopov disproziya)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1958, Vol. 22, Nr 7, pp. 815 - 816 (USSR)

ABSTRACT: When the authors investigated the Dy-fraction and the genetic relations of the Dy-isotopes with their daughter elements (Tb and Gd), they arrived at the conclusion (Ref 4) that isotopes with a mass number of 159, 157, 155, and 153 must be contained in the Dy-fraction. In order to check on this assumption it was attempted to determine directly the masses of the Dy-isotopes, which are produced in a "thorough" (glubok) Ta-fission reaction. For this purpose the Dy-fraction was separated in the mass spectrometer. The β-spectra of the separated Dy-isotopes were recorded with a scintillation spectrometer. A MC-2 industrial-type mass spectrometer was used for the separation. In order to increase the intensity

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Mass Numbers of Lysprosium Isotopes With a Neutron Deficit

of light the slits were somewhat widened and the tungsten filament cathode was platinated. The preparations were investigated on a γ-scintillation spectrometer with a NaJ(Tl)-crystal with a size of 3o x 2o mm. Radioactive isotopes of Dy with a mass number of 159, 157, 155, 153, and probably of 151 were found. The low activity of the Dy^{159}-sample, and the very low one of the Dy^{151}-sample did not permit a further investigation. From the evidence collected the following conclusions could be drawn: Dy^{157}, half-life $T_{1/2}=8,5\pm0,5$ hours. A radioactive daughter substance was not found. The γ-spectrum shows 8o- (weak) and 325 keV-lines. Dy^{155}: $T_{1/2}=9\pm2$ hours. A radioactive daughter substance with a half-life of about 5 days (Tb^{155}, Refs 4 and 6) was found. The γ-spectrum of Dy^{155} consists of 8o- (dubious) and 227 keV-lines: Dy^{153}. $T_{1/2}$ = = 7 ± 3 hours. A radioactive daughter substance with a half-life of about 2 days (Tb^{153}, Ref 7) was found. The γ-spectrum of

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

Mass Numbers of Dysprosium Isotopes With a Neutron Deficit

Dy^{153} contains the 80 keV-line. There are 9 references, 6 of which are Soviet.

ASSOCIATION: Radiyevyy institut im. V.G. Khlopina Akademii nauk SSSR. (Radium Institute imeni Khlopin, AS USSR)

Card 3/3

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33107
S/638/61/001/000/033/056
B116/B102

21.5210

AUTHOR: Krizhanskiy, L.

TITLE: Mass-spectrometric determination of the yield of fission fragments of heavy nuclei and of the products of some other nuclear reactions

SOURCE: Tashkentskaya konferentsiya po mirnomy ispol'zovaniyu atomnoy energii. Tashkent, 1959. Trudy. v. 1. Tashkent, 1961, 222-228

TEXT: A mass-spectrometric study of the yield of Pu^{239} fission fragments is reported. A PuO_2 sample of 75.3 mg weight was sealed in a quartz ampoule and subjected to a flux of $2.7 \cdot 10^{20}$ neutrons/cm^2. The neutron flux was determined from the yield of $Co^{59}(n\gamma)Co^{60}$ reactions (Yuz, D. Neytronnyye issledovaniya na yadernykh kotlakh (Neutron studies in nuclear reactors), IA, 1954). The Co^{60} activity was measured with an error of 1 $\pm$ 2% of a 4π counter and by a comparison of its gamma activity with that of a standard radium preparation (Aglintsev, K. K. Dosimetriya yadernykh izlucheniy (Dosimetry of nuclear radiations), 1957). A correc-

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tion for the self-absorption of neutrons in the Pu target was introduced. The irradiated PuO_2 sample was "cooled off" within 7.5 months and then dissolved in 62% HNO_3, to which some drops of 40% HF were added (solution I). The part of the sample sealed in the quartz ampoule was subjected to the same treatment (solution II). Nevertheless, 15% of the plutonium was lost. The analyses of the two solutions showed the same results. The investigation was carried out with an МИ-1301 (MI-1301) mass spectrometer (resolution 300, sector with 92°46'). The absolute integral yield of fission fragments was determined by the isotope-dilution technique. Enriched stable isotopes, such as Ba^{136}, were used if required. It was thus possible to determine the yield of Cs, Nd, Sm, Ce, Ba, and Sr isotopes. The yield of monoisotopic elements of praseodymium was obtained by a comparison with a standard solution. The results are summarized in Tables 1 and 2. A mass-spectrometric analysis of the isotopic composition of samarium revealed the presence of Sm^{148} which is not due to natural samarium impurities since Sm^{144} would be present in this case. The absence of Sm^{144} indicates that Sm^{148} appears as a result of a secondary reaction. Contrary to what had previously been assumed on

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Mass-spectrometric determination ...

the basis of radiochemical measurements, it has been found that the section of heavy fission fragments of the curves for the yield of fission fragments of two fissile nuclei with different masses also exhibits a shift of the maximum. With the aid of the new technique, the neutron-deficient isotopes of dysprosium with A = 159, 157, 155, 153, and 151 could be discovered and their radioactive characteristics determined. The isotopes with A = 155, 153, and 151 have been unknown so far. There are 3 figures, 3 tables, and 8 references: 3 Soviet and 5 non-Soviet. The four most important references to English-language publications read as follows: Ref. 4: Case, K., Hofman, F., Placzek, G. Introduction to the theory of the neutron difussion, v. 1, Los. Alamos, 1953; Ref. 5: Ingram, M. J. Phys. Chem., 57, 809, 1953; Ref. 7: Wiles, D., Petruska, J., Tomlinson, R., Can. J. Chem., 34, 227, 1956; Ref. 8: Fleming, W., Thode, H., Can. J. Chem., 34, 193, 1951.

ASSOCIATION: Radiyevyy institut im. Khlopina AN SSSR (Radium Institute imeni Khlopina AS USSR)

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Mass-spectrometric determination ...

Table 1. Relative yields of Pu^{239} fission fragments.
Legend: (1) element; (2) mass number of fragments; (3) relative yield according to author; (4) relative yield according to Ref. 7 (see below); (5) measurement of the number of fragment atoms per ml of solution by the isotope dilution technique; (6) idem after introduction of the correction for secondary processes: (nγ) and β-decay; * data on xenon from Ref. 8 (see below); ** corrections for the reaction $Xe^{135}(n\gamma)\ Xe^{136}$, $\sigma = 3.5 \cdot 10^6$ barns; *** corrections for the β-decay of Cs^{137}, T = 26.6 years; **** corrections for the reaction $Nd^{143}(n\gamma)$ Nd, σ = 334 barns; ***** corrections for the decay of Ce^{144}, T = 282 days, Pm^{147}, T = 2.52 years, Sr^{90}, T = 19.9 years.

Table 2. Absolute fragment yield for Pu^{239}.
Legend: (1) Element, (2) target mass number, (3) yield.

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S/056/62/043/006/014/067
B154/B102

AUTHORS: Gorodinskiy, G. M., Krizhanskiy, L. M., Kruglov, Ye. M.

TITLE: On magnitude of quadrupole interaction between Si^{119m} nuclei and the crystal lattice

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 6(12), 1962, 2050 - 2052

TEXT: The authors investigate the discrepancies observed between other authors' results (e.g. ZhETF, 40, 713, 1961; 41, 1347, 1961; 41, 1767, 1961 and Proc. Phys. Soc., 77, 1062, 1960; Phys. Rev., 123, 179, 1961; 120, 2211, 1960) concerning measurements of the quadrupole interaction between the Sn^{119m} nucleus and the crystal lattice. The experimental values of the resonance absorption line widths $2\Gamma_{exp}$ varied between 0.9 and 1.8 mm/sec and the splitting constants Δ between $3\cdot10^{-8}$ ev and $(11.0 \pm 1.5)\cdot10^{-8}$ ev. The authors of the present paper used as source a 7.15 mg/cm^2 thick β-Sn foil (0.1% Sn^{112}; 2.3% Sn^{119}; 94% Sn^{118}) irradiated by a neutron beam of integral flux $2.1\cdot10^{20}$ neutrons/cm^2. β-Sn foils of several thicknesses

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

On magnitude of quadrupole...

and other Sn compounds were used as absorbing media. The source as well as the absorption medium were kept at a temperature of T = 83° K. The results for several absorbing media are tabulated. The data from evaluation of the quadrupole splitting in the β-Sn lattice show good agreement with the Western papers and are in contradiction to the Soviet papers cited. It is concluded that the discrepancy may be due to instrumental splitting of the line measured. There are 3 figures and 1 table.

SUBMITTED: July 13, 1962

Соединение и тип решетки (1)	Толщина, мг/см² (2)	$2\Gamma_{эксп}$, 10^{-8} eV (3)	$\Delta \cdot 10^{-8}$ eV	Изомерный сдвиг, 10^{-8} eV (4)
Sn (β), т	46	12,6±2	$1{,}5<\Delta<4$	—
Sn (β), т	13,9	12,4±2		—
SnO_2	10,8	10±1,5	<3	19 ±3
SnO, т	19,7	18,2±3	~8	0,7±0,5
Cd Sn As_2, т (х)	17,8	11,4±2	<3	7,6±1,5

Card 2/3

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On magnitude of quadrupole... S/056/62/043/006/014/067
B154/B102

Legend to the Table: (1) Compound and the type of the lattice*, (2) thickness, mg/cm^2, (3) $2\Gamma_{exp}$, 10^{-8} ev, (4) isomeric shift, 10^{-8} ev.
* type of the lattice: T - tetragonal, T(X) - tetragonal chalco-pyrite.

Card 3/3

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

S/020/62/147/001/018/022
B101/B144

AUTHORS: Gol'danskiy, V. I., Corresponding Member AS USSR, Gorodinskiy, G. M., Karyagin, S. V., Korytko, L. A., Krizhanskiy, L. M., Makarov, Ye. F., Suzdalev, I. P., Khrapov, V. V.

TITLE: Investigation into the Mössbauer effect in tin compounds

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 1, 1962, 127 - 130

TEXT: The Mössbauer effect in the symmetrical compounds $SnCl_4$, $SnBr_4$, SnI_4, $Sn(C_6H_5)_4$ and SnO_2 and in the asymmetrical compounds Ph_3SnHal (Ph = C_6H_5, Hal = F, Cl, Br, I) was studied using an apparatus in which the absorber moved uniformly with respect to the source and an apparatus with sinusoidal movement. β-Sn or SnO_2 were used as sources of the 23.8-kev gamma-quanta (Sn^{119m}). With the symmetrical compounds the chemical shift δ of the absorber lines with respect to β-Sn, expressed in mm/sec (1mm/sec = $7.9 \cdot 10^{-8}$ ev), was a linear function of the electronegativity of the atoms bound to Sn. The equation $\delta = 1.6 \cdot 10^{-29}\left[|\psi_s(0)|^2_{absorb} - |\psi_s(0)|^2_{emitt}\right]\Delta R/R$ ev

Card 1/5

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

given by A. J. F. Boyle, D. S. P. Bunbury, C. Edwards (Proc. Phys. Soc., 79, 416(1962)) and the data on the ionicity of the Sn-Hal bonds, obtained by the method of A. L. Schawlow (J. Chem. Phys., 22, 1211 (1954)) and those of M. M. Yakshin et al. (ZhNKh, 6, 2425(1961)) on refraction and dielectric constant give $\delta_{ion} = -(5.6 \pm 0.5)$ mm/sec $= -(4.4 \pm 0.4)\cdot 10^{-7}$ ev, $\Delta R/R(Sn^{119}) = +(1.9 \pm 0.2)\cdot 10^{-4}$ for a completely ionized bond. These data enable $|\psi_{5s}(0)|^2$ to be determined directly from δ. In the asymmetrical compounds, asymmetrical doubtlets were observed (Fig. 2) similar to those found by Boyle et al. in SnF_4. The asymmetry was found also in dissolved compounds and cannot be explained by a random orientation of the crystals in the direction of the gamma quanta or by ferromagnetic or paramagnetic impurities. From the equation

$$\frac{\sigma_{\text{13 полн}}}{\sigma_{\text{11 полн}}} = \frac{\int_{-1}^{+1} [2\sqrt{5}\,\overline{P}_2(\cos\theta) + \overline{P}_0(\cos\theta)]\,/\,(\cos\theta)\,d\cos\theta}{\int_{-1}^{+1} [2\sqrt{5}\,\overline{P}_2(\cos\theta) - \overline{P}_0(\cos\theta)]\,/\,(\cos\theta)\,d\cos\theta}, \qquad (3)$$

where the subscript полн = total, $\overline{P_L}(\cos\theta)$ is the normalized Legendre

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

Investigation into the...

polynomial, $f(\cos\vartheta) = \sum a_k \bar{P}_k(\cos\vartheta)$ is the factor determining the intensity of the Mossbauer line, a_k the decay coefficient, it follows that if $\sigma_{13\ tot}/\sigma_{11\ tot} = (2\sqrt{5}a_0 + a_2)/(2\sqrt{5}a_0 - a_2) \neq 1$ (with $a_2 \neq 0$) and $-2\sqrt{5} < a_2/a_0 < 2\sqrt{5}$, each of the peaks of the Mossbauer doublet may become higher than the other one according to the ratio a_0/a_2. This ratio can be determined experimentally. Assuming a quadrupole splitting of the Mossbauer line in SnF_4 and Ph_3SnHal, $q = 6.9 \cdot 10^{18} x$ v/cm^2 is obtained where $q = \partial^2 v/\partial z^2$ is the gradient of the electric field in the region of the Sn^{119} nucleus, and x is the degree of ionization of the bond. For Ph_3SnHal $x \simeq 0.55$ with Hal = I; $x \simeq 0.7$ with Hal = Br, Cl and $x \simeq 1$ with Hal = F. Another possible interpretation of the asymmetrical splitting might be the different hybridization of the sp^3d^2 bonds. In order to explain this problem it is suggested that the effective charges of the halogen and tin atoms be determined directly. When an equimolecular mixture of $SnPh_4$ and SnI_4 was irradiated with 1.6-Mev electrons the Mossbauer spectrum was

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

observed to be greatly changed through the spectra of various disproportionation products Ph_iSnI_{4-i} being superimposed. Hence it is concluded that the Mossbauer effect can be used not only to study the chemical structure but also to solve problems of chemical kinetics and radiation chemistry. There are 2 figures.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

SUBMITTED: July 21, 1962

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

IVANOV, R.B.; KRIVOKHATSKIY, A.S.; KRIZHANSKIY, L.M.; NEDOVESOV, V.G.; YAKUNIN, M.I.

Determining (T_{α}) Pu^{241} half-life period. Atom. energ. 15 no.4: 322-323 O '63. (MIRA 16:10)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANSKIY, L.M.; OKHLOBYSTIN, O.Yu.; POPOV, A.V.; ROGOZEV, B.I.

Mössbauer spectra of organotin compounds containing an acyloxy group. Dokl. AN SSSR 160 no.5:1121-1123 F '65. (MIRA 18:2)

1. Submitted August 25, 1964.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

L 44128-66 EWT(m)

ACC NR: AP6023080 (AN) SOURCE CODE: UR/0367/66/003/004/0609/0613

AUTHOR: Belyayev, B. N.; Gvozdev, B. A.; Gudov V. I.; Kalyamin, A. F; Krizhanskiy, L. M.

ORG: none

TITLE: Investigation of the gamma spectrum of Br^{74} isotopes

SOURCE: Yadernaya fizika, v. 3, no. 4, 1966, 609-613

TOPIC TAGS: gamma spectrum, bromine isotope, scintillation spectometer, nuclear energy level, radiation intensity, cyclotron

ABSTRACT: The gamma spectra of Br isotopes, obtained in the reaction of $Cu(C^{12}, xn)Br$, have been investigated with the aid of a scintillation spectometer. Energies and relative intensities have been measured for a number of new γ-lines in bromine with the decay half-times 36 ±1 and 4 ±1 min. The energies and relative intensities are given for γ-lines with $T_{1/2}$ = 36 min. The isotope with $T_{1/2}$ = 36 ±1 min was identified as Br^{74}. A diagram of the lower energy levels in Se^{74} is given in the original article. The authors thank G. N. Flerov for his

Card 1/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

L 44428-66

ACC NR: AP6023080

valuable discussions and support of this study, and B. A. Zager and his assistants for maintaining reliable operation of the cyclotron during irradiation. Orig. art. has: 2 figures and 1 table. [Based on authors' abstract] [NT]

SUB CODE: 18/ SUBM DATE: 10Jul65/ ORIG REF: 003/ OTH REF: 010

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

34207
S/057/62/032/002/008/022
B104/B102

26.2311

AUTHOR: Krizhanskiy, S. M.

TITLE: Column theory of an arc discharge

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 2, 1962, 185-191

TEXT: The author develops a phenomenological theory of a simple model of the column of a skady high-pressure arc discharge. The arc plasma is regarded as a mixture of electrons, singly charged ions, and neutral atoms. The peripheral, weakly ionized region of discharge is neglected. The temperature distribution $T_i = T(r_i)$ is determined from the degree of ionization at the boundary of the discharge channel with the aid of the Saha equation. Since at high pressure dipolar diffusion is weak, the existence of a local thermodynamic equilibrium necessary for the application of the Saha equation is fulfilled. When determining the degree of ionization at the boundary of the current-carrying region, the electrical conductivity must be taken into account as a function of temperature and electron concentration. It is demonstrated that the electrical conductivity in the column is determined by the Coulomb interaction of the

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

Column theory of an arc ...

electrons and ions. The electrical conductivity is independent of the electron density. The heat transfer in the column is regarded as consisting of emission and heat conduction. Emission from the volume of a positive column consists of bremsstrahlung and recombination radiation. It is shown that in sufficiently strong arcs the contribution of emission to the thermal equilibrium is small. At temperatures higher than 2 ev and degrees of ionization of 0.1 to 0.15 not only classical heat conduction but also electronic heat conduction and ionization energy transfer have to be considered. The temperature and ionization limits are sought within which only classical heat conduction need be considered both in the column and in the shell. The effect of the boundary conditions on the discharge characteristics is studied in detail. The author thanks L. E. Tsyrlin for valuable discussions and advice, and V. Ye. Golant for consultations. There are 2 figures and 10 references. 8 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: W. Elenbaas. The high pressure mercury vapor discharge. Amsterdam-New York.

Card 2/3

X

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

34207
S/057/62/032/002/008/022
B104/B102

Column theory of an arc ...

ASSOCIATION: Vsesoyuznyy elektrotekhnicheskiy institut im. V. I. Lenina (All-Union Institute of Electrotechnics imeni V. I. Lenin). Leningradskiy filial (Leningrad Branch)

SUBMITTED: July 21, 1960 (initially), April 1, 1961 (after revision)

Card 3/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHANSKIY, S.M., inzh.

Control of the attenuation of the recovery voltage in test systems. Elektrichestvo no.2:43-47 F '62. (MIRA 15:2)

1. Vsesoyuznyy elektrotekhnicheskiy institut im. Lenina, Leningradskiy filial.
(Electric switchgear—Testing)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

L 7723-66 EWT(l)/EPA(s)-2/ETC/EPF(n)-2/EWG(m)/EPA(w)-2/ENA(m)-2 IJP(c)
ACC NR: AP5025904 GG/AT SOURCE CODE: UR/0057/65/035/010/1882/1888

AUTHOR: Krizhanskiy, S.M. 44,55

ORG: Leningrad Branch of the All-Union Electrotechnical Institute im. V.I.Lenin (Vsesoyuznyy elektrotekhnicheskiy institut imeni V.I.Lenia, Leningradskiy filial) 44,55 69 P

TITLE: On the theory of the current-voltage characteristic of the column of a high pressure nonstationary arc discharge

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 10, 1965, 1882-1888

TOPIC TAGS: electric arc, alternating current, dynamic system, energy theory, gas discharge plasma, mathematic method, circuit breaker 20,44,55 20,44,55

ABSTRACT: The purpose of this paper is to derive a useful approximation for the dynamic current-voltage characteristic of a nonstationary high-pressure alternating current arc. The calculations are based on the heat balance equation with the assumptions of axial symmetry, constant pressure, and fixed temperature on the boundary. The temperature integral S of the heat conductivity and the temperature integral N of the heat capacity are introduced as new variables in accord with the proposals of G. Schmitz (Zs. Natur., 5a, 571, 1950) and H.Maecker (Zs. Phys. 157, No.1, 1, 1959). Approximate analytic expressions are introduced for the electric conductivity of the plasma, the radiation loss, and the quantity N as functions of S.Different expressions are possible and the merits of several are briefly discussed. A solution for S is

Card 1/2

UDC: 537.523.5

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

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L 7723-66
ACC NR: AP5025904

is assumed in the form of a product of an unknown function of time by a Bessel function of the radius. This solution is substituted into the heat balance equation and the equation is averaged over the radius. There results an approximate equation for the unknown function of time from which the dynamic current-voltage characteristic is derived. The behavior of the arc can be calculated by solving the dynamic current-voltage characteristic simultaneously with the equation for the external circuit. An expression is also derived for the thermal time constant of the arc as a function of the current. The approximation introduced by separating the variables and averaging the heat balance equation over the radius can be improved by assuming a solution in the form of a sum of several terms, in each of which the variables are separated and the radial dependence is specified, and then averaging over a corresponding number of separate radial regions. The author speaks of this procedure as a method of successive approximation, although the calculation of the n-th approximation does not depend on the previous calculation of the lower order approximations. The author thanks B.Ya.Tomkin for valuable discussions. Orig. art. has: 27 formulas and 1 figure.

SUB CODE: ME, EM, EE/ SUBM DATE: 03Feb65/ ORIG REF: 004/ OTH REF: 010

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KHIZHANSKIY, S.M., inzh.

Testing of the switching capability of switches at decreased voltages. Elektrotekhnika. 36 no.9:4-9 S '65. (MIRA 18:9)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRYZHANSKIY, Zakhariy Pavlovich; MARKHASEV, Mikhail Grigor'yevich; BARKOV, G.D., red.; SUSHKOV, B.B., red.; VAYL', T.I., red.izd-va; BEGICHEVA, M.N., tekhn.red.

[Safety engineering and industrial sanitation during cleaning operations on oil tankers] Tekhnika bezopasnosti i promsanitariia pri zachistnykh rabotakh na sudakh neftenalivnogo vlota. Moskva, Izd-vo "Morskoi transport," 1957. 78 p. (MIRA 11:1)
(Tank vessels--Cleaning)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

VOROZHTSOV, ml., N.N.; YAKOBSON, G.G.; KRIZHECHKOVSKAYA, N.I.; D'YACHENKO, A.I.; SHIKANOVA, I.V.

Aromatic fluoro derivatives. Part 4: Substitution of chlorine for the nitro group in nitrohalo derivatives of benzene. Zhur. ob. khim. 31 no.4:1222-1226 Ap '61. (MIRA 14:4)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva.
(Benzena) (Nitro group) (Chlorine)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

VOROZHTSOV, ml., N.N.; YAKOBSON, G.G.; KRIZHECHKOVSKAYA, N.I.

Aromatic fluoro derivatives. Part 5: Nitration of fluoro-chlorobenzenes. Zhur. ob. khim. 31 no.4:1227-1229 Ap '61. (MIRA 14:4)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva.

(Fluorine organic compounds)
(Nitration) (Benzene)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

VOROZHTSOV, N.N., mladshiy; YAKOBSON, G.G.; KRIZHECHKOVSKAYA, N.I.

Aromatic fluoro derivatives. Part 7: Preparation of fluorochlorobenzenes. Zhur.ob.khim. 31 no.5:1674-1678 My '61. (MIRA 14:5)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I.Mendeleyeva.
(Benzene)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

ANDREYEVA, M.A.; VOROZHTSOV, N.N., mladshiy; KRIZHECHKOVSKAYA, N.I.; STEPANOV, B.I.; YAKOBSON, G.G.

Substitution of halogen in azo compounds. Part 17: Reactions of polyhaloazo compounds. Using the reaction for establishing the structure of some aromatic halogen-containing compounds. Zhur.ob.khim. 33 no.3:988-991 Mr '63. (MIRA 16:3)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva i Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.
(Azo compounds)
(Halogen)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHEVSKIY, L.T., brigadir-mekhanik (Chernyakhovskiy oblast, Moldavskoy SSR)

Resuming work. Zashch. rast. ot vred. i bol. 9 no.[illegible]
(MIRA 17:7)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

LEVIN, E.I.; KRIZHEVSKIY, V.M.

Using silicalcite on the construction sites of the Odessa Trust for the Construction of Transportation Facilities. Transp. stroi. 10 no.10:28-32 O '60. (MIRA 13:10)

1. Nachal'nik tresta Odesstransstroya (for Levin). 2. Zamestitel' nachal'nika tekhnicheskogo otdela Odesstransstroya (for Krizhevskiy). (Odessa--Sand-lime products)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

RUDNYEV, I.M.[Rudniev, I.M.], dotsent; KRIZHNA, T.O.[Kryshna, T.O.], translator; IVANOVA, Ye.M., red.; CHUCHUPAK, V.D., tekhn. red.

[How to prevent rheumatism and rheumatic heart disease in children] IAk zapobihty revmatyzmu i revmatychnym zakhvoriuvanniam sertsia u ditei. Kyiv, Derzh. med. vyd-vo URSR, 1961. 21 p. (MIRA 15:4)
(RHEUMATIC HEART DISEASE) (RHEUMATISM)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHNITS, D.A

PA - 2066

AUTHOR: KRIŽNIC, D.A.

TITLE: Quantum Corrections to the THOMAS-FERMI Equation (Kvantovye popravki k uravneniju Tomasa-Fermi, Russian).

PERIODICAL: Zhurnal Eksperimental'noi i Teoret. Fiziki, 1957, Vol 32, Nr 1, pp 115-123 (U.S.S.R.)

Received: 3 / 1957 Reviewed: 4 / 1957

ABSTRACT: The present paper supplies a consistent quantum-mechanical derivation of the quantum corrections of the second and fourth order (with respect to $\hbar$) from the equations by HARTREE-FOCK. The operator-like formulation of the problem should he be used. Neglecting the non-commutability of the operators of the potential and of the kinetic energy, the THOMAS-FERMI and THOMAS-DIRAC equations are derived. The quantum corrections correspond to the consideration of these operators, in which case the corrections of higher order are connected with the complicated operators.
First the operator-like formulation of the HARTREE-FOCK equations is discussed. The quantum-mechanical equations of the particles which are in interaction according to the law $V(|q' - q''|)$ are given in the HARTREE-FOCK approximation. They correspond to the steady case. Formulation of the problem in the form of an operator is carried out by transition from the matrix elements to the corresponding operators. The advantages of this method are due to

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Quantum Corrections to the THOMAS-FERMI Equation.

the independence of the equation thus obtained from the type of the representation, and besides, computation is considerably simplified, In order to find the operator corresponding to the density matrix, the filling-up operator is introduced, the spectrum of which consists of the filling-up number. By transition to electrostatic interactions of the particles operator equations are obtained which are equivalent to the quasi-classical system of equations mentioned above. The newly obtained system of operator equations represents the explicit solution of the system of equations mentioned above. The importance of the computations now lies in the realization of functions of a sum of non-commuting arguments. If this non-commutability can be neglected, i.e. in the quasi-classical case, the THOMAS-FERMI and THOMAS-FERMI-DIRAC equations follow from the last found system of equations.

The quantum corrections of the order $\hbar^2$ and $\hbar^4$ to the THOMAS-FERMI equation are computed by development in series according to the commutators of the terms of the HAMILTONIAN. Correction terms of the $\hbar$ order do not exist. Also the correction to energy due to quantum-like effects is computed.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

PA - 2066

Quantum Corrections to the THOMAS-FERMI Equation.

The energy of the atom according to the statistical model:
The quantum correction of second order furnishes a contribution of ~ 20 to ~ 30% to the energy. For the accurate determination of the correction of fourth order the quantum-like exchange corrections must be taken into account and an extensive class of trial functions must be used in order to increase accuracy. An appendix deals with the realization of functions of non-commuting arguments.

ASSOCIATION: Physical Institute "P.N.LEBEDEV" of the Academy of Sciences of the USSR
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZHUS, E. Ya.

USSR/General and Special Zoology. Insects. Injurious In- P
sects and Ticks. Pests of Fruit and Berry Crops

Abs Jour : Ref Zhur - Biol., No 11, 1953, No 49618

Author : Krizhus E.Ya.
Inst : AS LatvSSR
Title : Pests and Diseases of Plants in the Fruit Nursery "Dartiya" and Measures for Their Control in 1955.

Orig Pub : Sb. tr. po zashchite rast. Riga, AN LatvSSR, 1956, 143-151

Abstract : The following pests were indentified: 32 moth species damaging ungrafted fruit trees, wildings and young trees; six weevil species which damage the young leaves of the pear plantlets; a weevil which nibbles away the tops of the shoots; an apple-eating weevil (Anthanomus pomorum L.); psylla pyri L.; four aphid species; and nine species causing dangerous diseases. Data are given on the biology, damage and measures,

Card : 1/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

USSR/General and Special Zoology. Insects. Injurious In- P
sects and Ticks. Pests of Fruit and Berry Crops

Abs Jour : Ref Zhur - Biol., No 11, 1953, No 49618

carried out for the control of a number of pests.
-- A.P. Adrianov

Card : 2/2

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZKA, ALEXANDER.

Banska Bystrica, kraj slovenskeho narodneho povstania. (Vyd. 1.) V Bratislave, Statne telovychovne nakl., 1954. 158 p. (Banska Bystrica, the country of the Slovak National Uprising. 1st ed. illus., bibl.)

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZKA, ALEXANDER.

Donovaly-Korytnica, turisticke a rekreacne strediska. [Vyd. 1.] Martin, Osveta, 1956. 90 p. [Donovaly and Korytnica, tourist and recreation centers; guide-book. 1st ed. illus., fold. map]

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZKA, Ivan, ins.

Irrigation system at Upper Zitny ostrov. Vodni hosp 13 no.9: 359-360 '63.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZKO, B.

"Technical development of founding in Slovakia." Slevarenstvi, Praha, Vol. 2, No. 6, June 1954, p. 167.

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZKO, P.

"Some Methods of Saving Materials," P. 195, (TECHNICKA PRACA, Vol. 6, No. 4, Apr. 1954, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZO, B.

Economic potentialities in mass assembly work.

p. 468 (Strojirenska Vyroba. Vol. 5, no. 10, Oct. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZKO, B.

"Mechanization of assembly work: a source of saving."

p. 555 (Strojirenska Vyroba) Vol. 5, no. 12, Dec. 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZKO, B.

"Forming machines, Leipzig, 1959." p. 294.

STROJIRENSKA VYROBA. (MINISTERSTVO TEZKEHO STROJIRENSTVI, MINISTERSTVO PRESNEHO STROJIRENSTVI A MINISTERSTVO AUTOMOBILOVEHO PRUMYSLU A ZEMEDELSKYCH STROJU.) Praha, Czechoslovakia, Vol. 7, no. 7, July 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959. Uncl.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZKO, Bohuslav, inz.

Use of the television in health techniques. Nova technika no.11:488-489 N '60.

1. Presna mechanika, Piestany.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

NIEDERLAND, T.R.; MEZES, V.; FEDORCAKOVA, A.; KRIZKO, J.

Effect of protracted ACTH, cortisone & phenylquinine administration on hyaluronidase activity in vivo. Cas. lek. cesk. 97 no.6-7:180-183 14 Feb 58.

1. Ustav pre vseobecnu a klinicku biochemiu Lek. fak. Komenskeho university v Bratislave, prednosta prof. T.R. Niederland.

(ACTH, eff.
inhib. of hyaluronidase activity in rabbits (Cz))
(CORTISONE, eff.
same)
(QUININE, related cpds
phenylquinine, inhib. of hyaluronidase activity in rabbits (Cz))
(HYALURONIDASE, antag.
ACTH, cortisone & phenylquinine in rabbits (Cz))

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZKO, J.: PECHAN, L.

"Metabolism of cysteine S^{35} in rats following X-ray irradiation"

Ceskoslovenska Fysiclogie. Praha, Czechoslovakia. Vol. 8, no. 1, Jan 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 7, July 59, Unclas

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KOLESAR, Dusan; BALOG, Ondrej; [illegible]KO, Jan

Possibilities of the use of fluorescence microscopy in the prevention of injury with ionizing radiations. Prac. lek. 16 no.10: 443-447 D '64.

1. Klinika chorob z povolania (predn sta prof. dr. M. Nosal) a Katedra lekarskej biochemie (veduci doc. dr. T.Tursky, CSc.) Lekarskej fakulty University Komenskeho v Bratislave.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

Krizkova, L.

KUKACKA, Richard, PhMr.; PACHNER, MUDr., (Technicka spoluprace); KRIZKOVA, Liba; SLAVICEK, Zdenek; HOSTALEK, Josef

Dust control in coal mines. II. Pracovni lek. 10 no.1:70-71 Mar 58.

1. Krajska hygienickoepidemiologicka stanice v Ostrave, reditel MUDr Jaroslav Verner, odbor hygieny prace, prednosta MUDr P. Pacher. Prednesenon na V. celostatnim sjezdu Pracovniho lekarstvi v Gottwaldove. R. K. KHES-- odbor hyg. prace, Zaluzanskeho ulice-- Ostrava VII.

(DUST,
control in coal mines in Czech. (Cz))
(MINING,
same)

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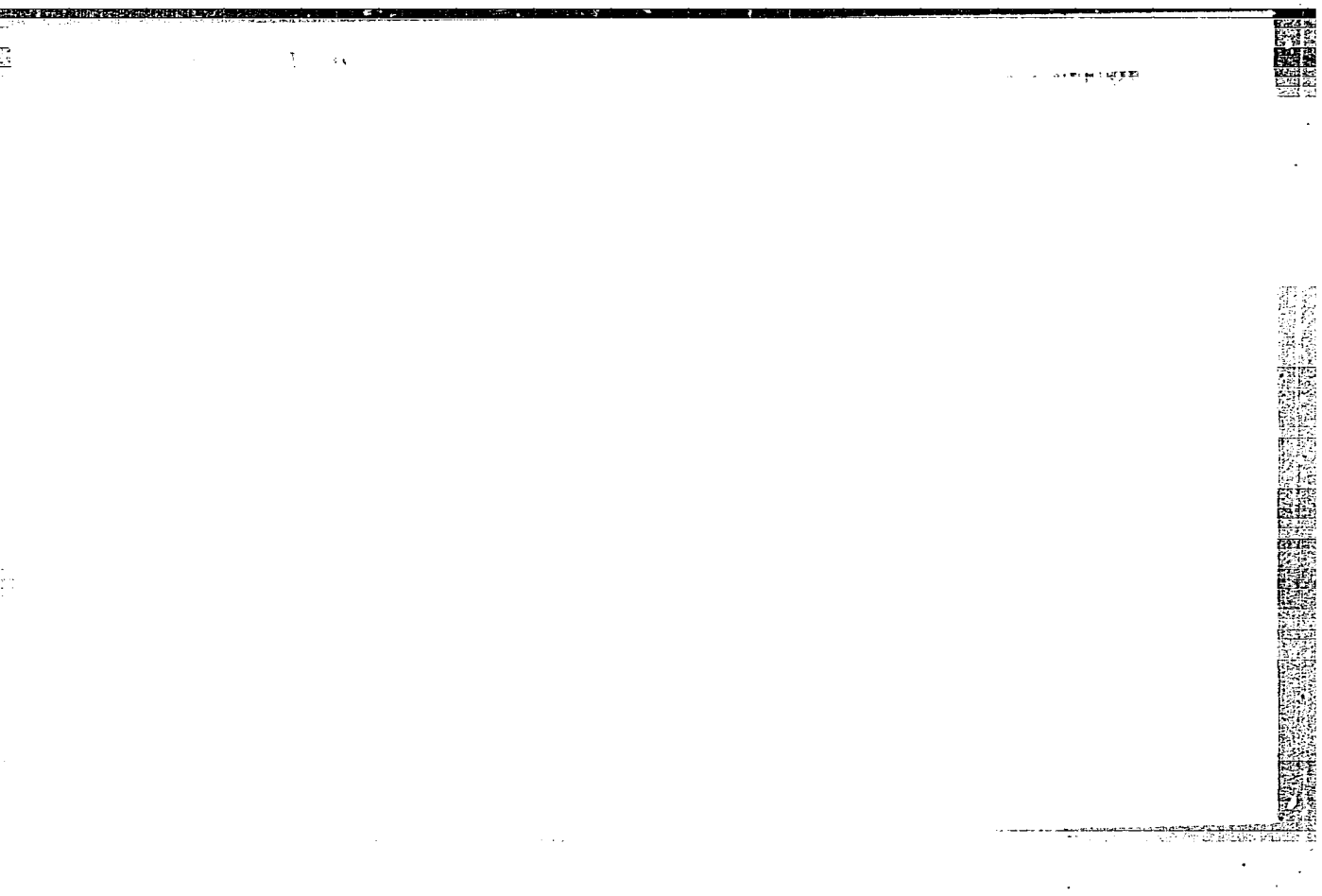

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZMAN, M.G.

EXCERPTA MEDICA Sec.2 Vol.11/5 Physiology,etc. May 58

1896. A QUANTITATIVE ESTIMATE OF FREE AMINO-ACID INCORPORATION INTO ISOLATED PROTEINS (Russian text) - Krizman M.G., Sukhareva D.S., Samarina O.P. and Konikova A.S. Inst. of Surg., Inst. of Therap., Acad. of Med. Sci. USSR, Moscow - BIOKHIMIIA 1957, 22/3 (449-459) Graphs 6 Tables 4

A linear function was found correlating the values of glycine, tyrosine and methionine incorporation into myosin and serum proteins and the concentration of the respective amino-acid in the medium. This correlation proved valid within a wide range of amino-acid concentrations. The value of cysteine incorporation into the proteins as a function of concentration in the medium varies but insignificantly. The incorporation of free amino-acids into isolated proteins is accomplished at a rate of the same order of magnitude as in the proteins of various biological systems. The high rate of free amino-acid incorporation into proteins is revealed at low concentrations of the protein and high concentrations of free amino-acids in the reaction medium. The rate of incorporation of S-containing amino-acids into myosin is accelerated by ATP.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

DEMSIC, Bern i (Zagreb); KRIZMANIC, Vjekoslav (Zagreb); MATIJEVIC, D. (Zagreb)

Instant tea. Farmaceut gl Zagreb Supplement (12) no.5:45 '62

1. "Biljana" Enterprise, Zagreb.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

[illegible], K.

"Brun, K.; Kacjan, M.; Kriznar, M. "Arandjelovac clays as a material for the production of electro-porcelain." p. 451. (Priroda. Vol. 18, no. 6/7, 1953. Zagreb)

SO: Monthly List of East European Accessions, Vol. 3, no. 3, Library of Congress. March 1954. Uncl.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIŽNIK, Nada

Theoretical considerations on various Treponema tests and their practical application in serological syphilis diagnosis. Zdrav. vestn. 34 no.3:77-80 '65.

1. Dermatoloska klinika medicinske fakultete v Ljubljani (predstojnik: Doc. dr. Janez Fettich).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZO, M

"Notes on the application of pollen analysis in the study of the more recent history of forest development."

BIOLOGIA, Bratislava, Czechoslovakia, Vol. 13, no. 11, 1958

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Sept 59
Unclas

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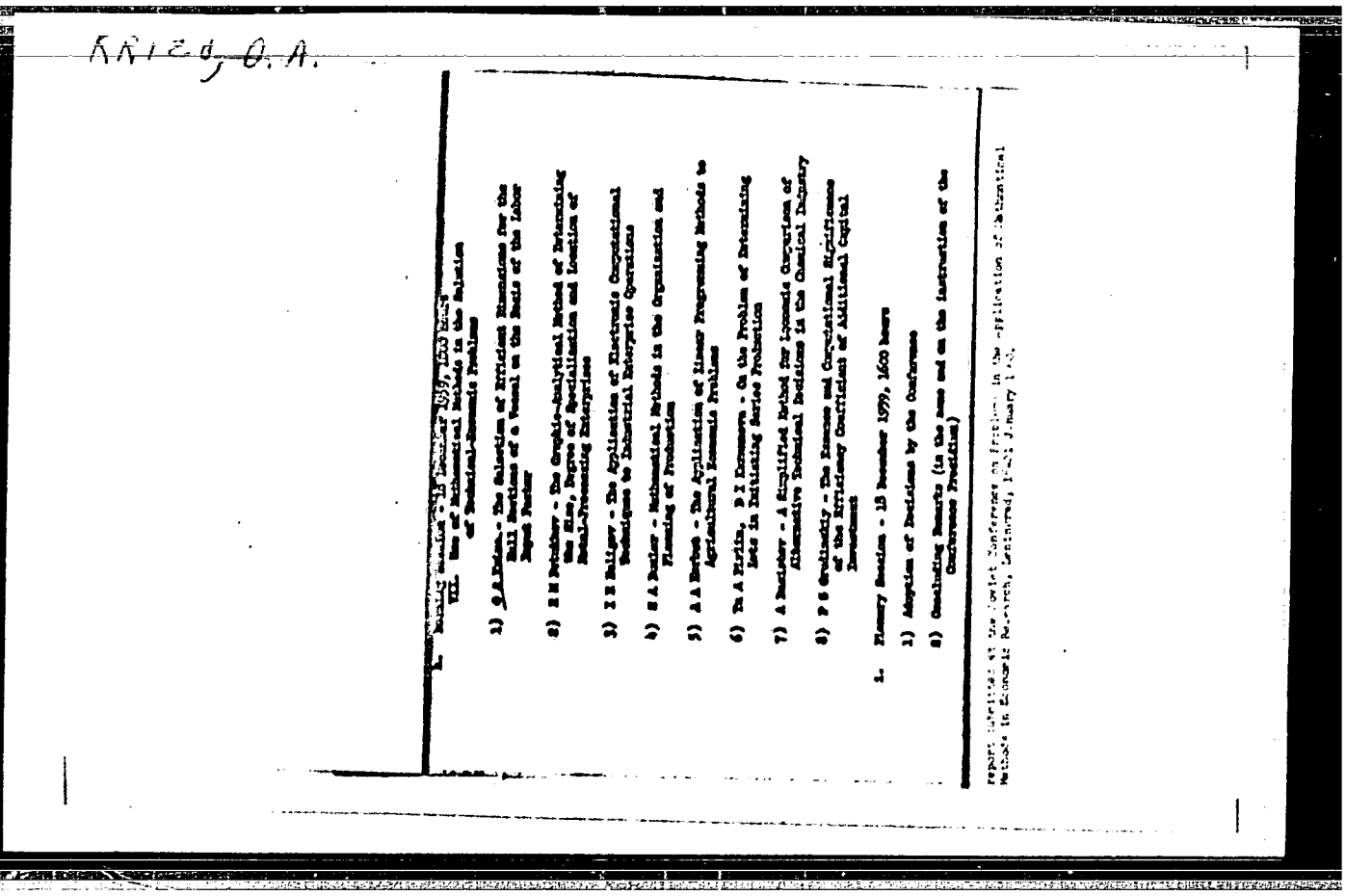

KRIed, O.A.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

BAKHCHUSARAYTS'YAN, N.G.; FIOSHIN, M.Ya.; DZHAFAROV, E.A.; KRIZOLITOVA, M.A.

Use of lead dioxide anodes in the electrolysis of iobuturic acid.
Zhur.prikl.khim. 35 no.7:1643-1644 Jl '62. (MIRA 15:8)
(Lead oxide) (Electrolysis) (Isobuturic acid)

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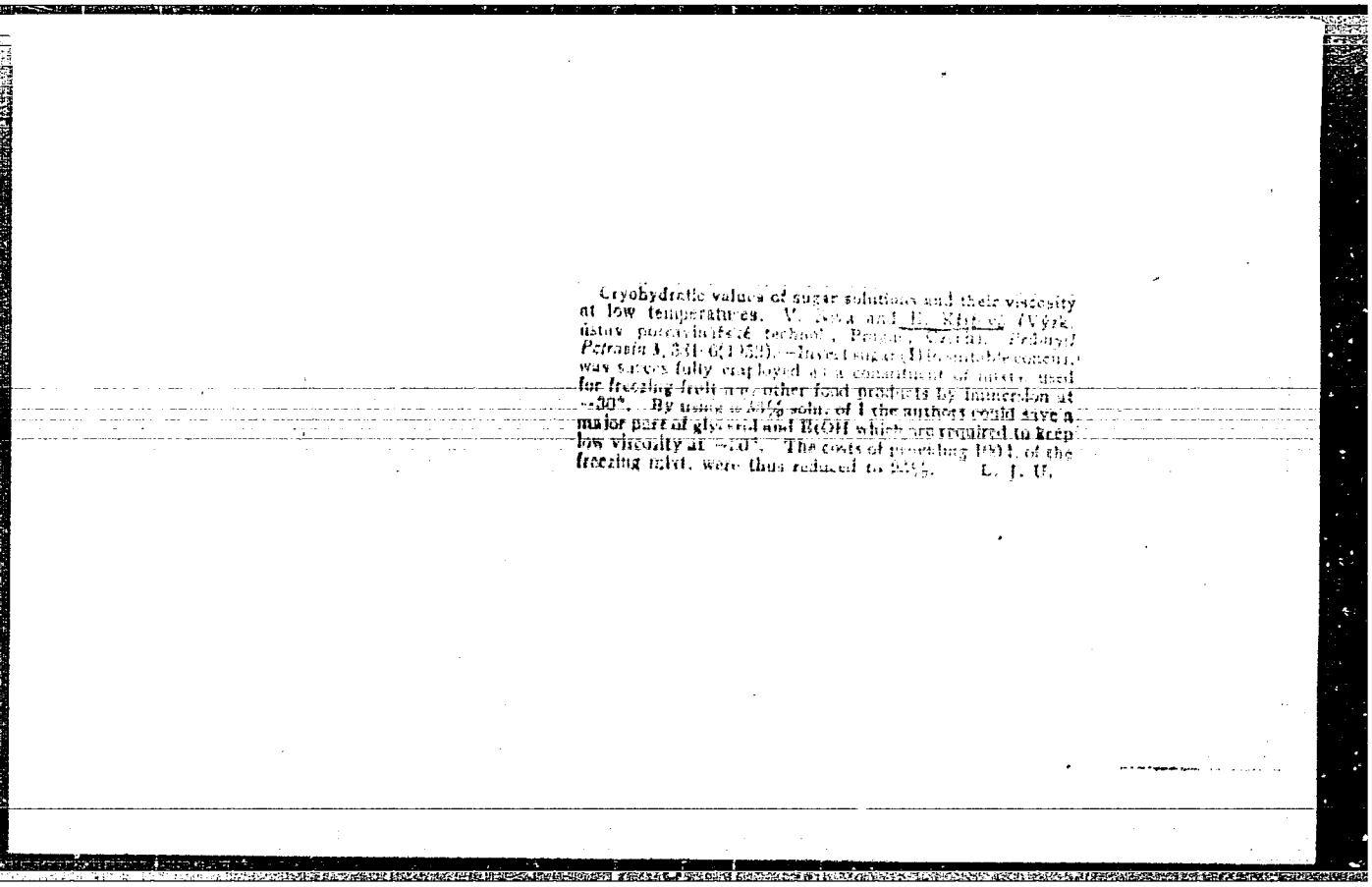

Cryohydratic values of sugar solutions and their viscosity at low temperatures. V. Nova and E. Křížová (Výzk. ústav potravinářské technol., Prague, Czech). *Průmysl Potravin* 3, 381-6(1952).—Invert sugar (I) in suitable concn. was successfully employed as a constituent of mixts. used for freezing fruit and other food products by immersion at −30°. By using a 50% soln. of I the authors could save a major part of glycerol and EtOH which are required to keep low viscosity at −30°. The costs of providing 100 l. of the freezing mixt. were thus reduced to 93%. L. J. U.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

CZECH

763. Polarographic determination of nitrites and nitrates in meat-pickling solutions. R. Pistiche and E. Khlova (*Pekhnyal Potravin*, 1953, 4 [5], 183-[illegible]; *Referativnyi Zh., Khim.*, 1954, Abstr. No. 16 819). — For the determination of nitrate, the method of Kolthoff *et al.* (*J. Amer. Chem. Soc.*, 1944, 66, 1782) is used. A soln. containing 1 per cent. of the sample together with KCl (0.1 *M*), HCl (0.01 *M*) and uranyl acetate (0.0002 *M*) is polarographed at −1 V. A soln. of KNO_3 (0.001 *M*) is used to prepare a calibration curve. For the determination of nitrite, 9 ml of 10 per cent. acetic acid soln. are placed in the cell and nitrogen is blown through. One ml of a 10 per cent. soln. of the sample, freed from atmospheric oxygen, is then added, the soln. is mixed and then polarographed at −0.6 V, the addition method being used. When nitrate is being determined in spent soln., proteins must first be precipitated with ethanol and then removed by filtration. In the nitrite determination on spent soln., the proteins are pptd. by acetic acid and the use of ethanol is unnecessary.

E. Havrsy

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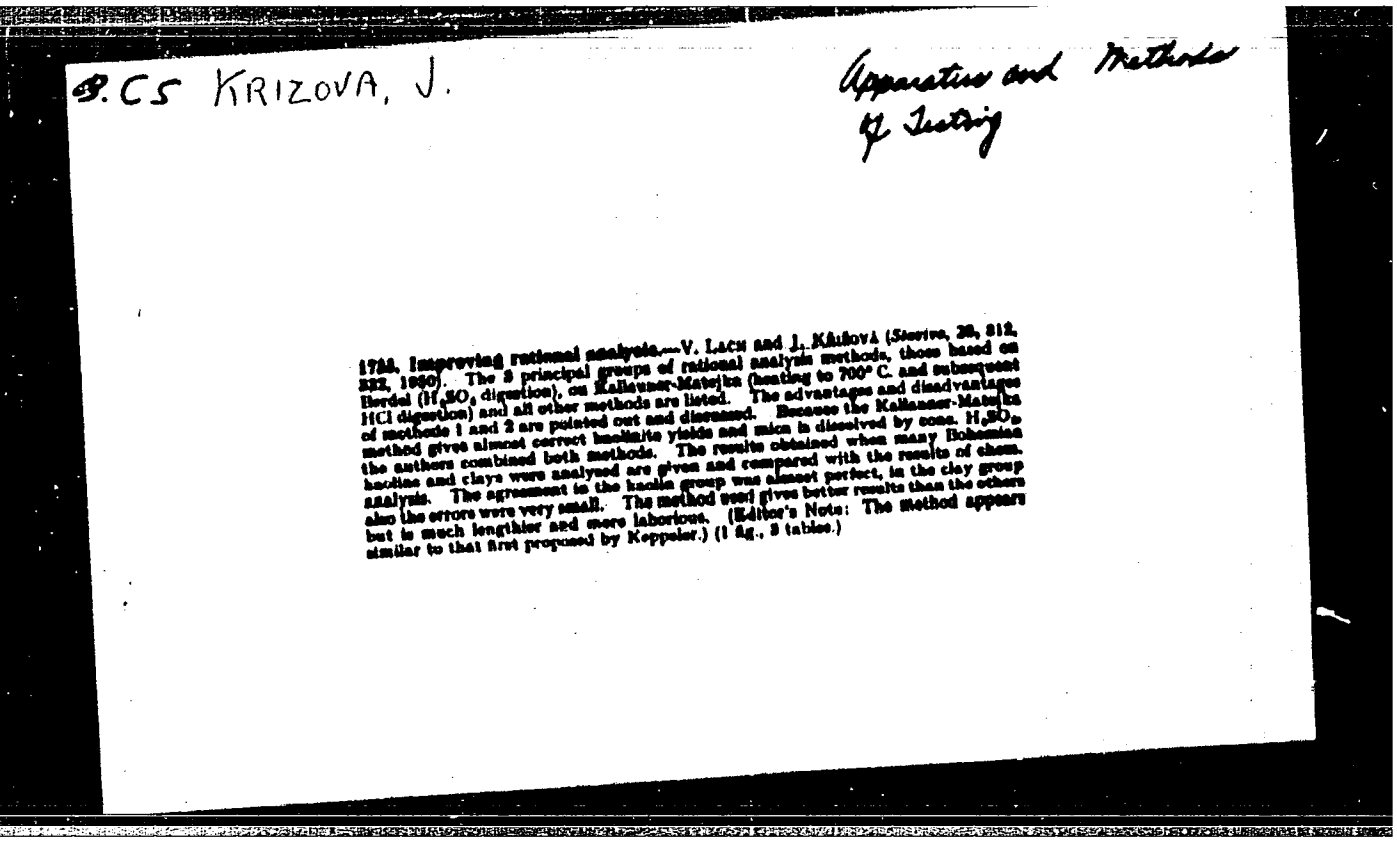

B.CS KRIZOVA, J.

Apparatus and Methods of Testing

1755. Improving rational analysis.—V. LACH and J. KŘÍŽOVÁ (Stavivo, 28, 312, 322, 1950). The 3 principal groups of rational analysis methods, those based on Berdel (H_2SO_4 digestion), on Kallauner-Matejka (heating to 700° C. and subsequent HCl digestion) and all other methods are listed. The advantages and disadvantages of methods 1 and 2 are pointed out and discussed. Because the Kallauner-Matejka method gives almost correct kaolinite yields and mica is dissolved by conc. H_2SO_4, the authors combined both methods. The results obtained when many Bohemian kaolins and clays were analysed are given and compared with the results of chem. analysis. The agreement in the kaolin group was almost perfect, in the clay group also the errors were very small. The method used gives better results than the others but is much lengthier and more laborious. (Editor's Note: The method appears similar to that first proposed by Keppeler.) (1 fig., 3 tables.)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZOVA, M.; NEJEDLA, H.

"Initiative of Agricultural Laborers and Rationalizers in the USSR", P. 740, (ZA SOCIALISTICKE ZEMEDELSTVI, Vol. 4, No. 7/8, July/Aug. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

WAGNER, Vladimir, Doc. Dr.; MARATKA, Zdenek, Doc., Dr.; Za technicke spoluprace: KRIZOVA, M.

Immunotoxicity of the gastrointestinal tract. I. Preparation of anti-intestinal sera and their serological properties. Cas. lek. cesk. 91 no.3:77-78 18 Jan 52.

1. Z ustavu pro lekarskou mikrobiologii a imunologii KU v Praze a z II. kliniky chorob vnitrnich KU v Praze.

(IMMUNE SERUMS, preparation of
prep. in rabbits by inject. with rat gastrointestinal system extracts.)
(GASTROINTESTINAL SYSTEM
extracts from rats, inject. into rabbits in prep. of antiintestinal sera.)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

TRAVNICEK, R.; BELAN, A.; PIRK, F.; technicka spoluprace: BUJKA, L.; KLAINOVA, E.; KRIZOVA, M.; KUTIL, V.

Our experience with roentgenographic cinematography of the digestive tube. Cesk.rentg. 15 no.1:10-16 F '61.

1. Ustav klinicke a experimentalni chirurgie, red. prof. Dr.Sc. dr. B. Spacek. Vyzkumny ustav vyzivy lidu, red.doc. dr. J.Masek, Praha-Krc; Laboratore CSF - Barrandov.
(GASTROINTESTINAL SYSTEM radiog)
(CINEFLUOROGRAPHY)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

PIRK, F.; BELAN, A.; TRAVNICEK, R.; BUDINOVA-SMELA, J.; FRYNTOVA, A.: technicke spoluprace BUFKA, L.; KRIZOVA, M.; KUBIASOVE, E.; KUTILA, L.

Our experiences with roentgen cinematography in cerebral angiography. Preliminary report. Cesk. neur. 24 no.1:51-53 Ja '61.

1. Ustav pro vyzkum vyzivy lidu, Praha, reditel doc. MUDr. J. Masek - Ustav pro klinickou a experimentalni chirurgii, Praha, reditel profesor MUDr. B. Spacek - Oddeleni pro cevni onemocneni mozku, predn. doc. MUDr. J. Budinova-Smela, Laboratore statniho filmu, Barrandov.

(CEREBRAL ANGIOGRAPHY)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZOVSKAYA, M.I.; DOLETSKIY, S.Ya., kand.med.nauk

X-ray diagnosis of hiatal hernia in children [with summary in English]. Vest.rent. i rad. 32 no.4:45-49 Jl-Ag '57. (MIRA 10:11)

1. Iz kliniki detskoy khirurgii (dir. - prof. S.D.Ternovskiy) na baze Detskoy klinicheskoy bol'nitsy imeni N.F.Filatova (glavnyy vrach M.N.Kalugina)
(HERNIA, DIAPHRAGMATIC, in inf. and child
hiatal, x-ray diag.)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

DOLETSKIY, S.Ya. kand. med. nauk.; KRIZOVSKAYA, N.I.

Principles of X-ray diagnosis of megacolon in children. Vest. rent. i rad. 33 no.6:3-8 N-D '58. (MIRA 12:1)

1. Iz detskoy khirurgicheskoy kliniki (dir. - chlen-korrespondent AMN SSSR, zasluzhennyy deyatel' nauki prof. S. D. Ternovskiy) na baze detskoy klinicheskoy bol'nitsy imeni prof. N.F. Filatova (glavnyy vrach M. N. Kalugina) II Moskovskogo meditsinskogo instituta imeni N. I. Pirogova (dir. - prof. O.V. Kerbikov)
(MEGACOLON, diag.
x-ray in child. (Rus))

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZOVSKAYA, N.I.

Acute xanthomatosis in a child one year and two months of age. Vest.rent. i rad. 34 no.3:67-70 My-Je '59. (MIRA 12:10)

1. Iz detskoy klinicheskoy bol'nitsy imeni prof.N.F.Filatova (glavnyy vrach M.N.Kalugina).
(LIPOIDOSIS, in inf. & child
xanthomatosis, acute (Rus))

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

VLASOVA, A.N.; REMIZOVA, Z.A.; KRIZOVSKAYA, N.I.

Characteristics of the course of pneumonias in viral influenza in children. Pediatriia 37 no.9:15-18 S '59. (MIRA 13:2)

1. Iz kafedry gospital'noy pediatrii (zaveduyushchiy - prof. K.F. Popov), kafedry propedevtiki detskikh bolezney (zaveduyushchiy - prof. V.A. Vlasov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova, iz rentgenovskogo otdeleniya detskoy bol'nitsy imeni N.F. Filatova (glavnyy vrach M.N. Kalugina).
(PNEUMONIA compl.)
(INFLUENZA compl.)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZOVSKAYA, N.I.; BEKERMAN, A.M.

Phytobezoar of the stomach (false tumor) in a 13-year-old child treated conservatively. Pediatriia 37 no.11:74-76 N '59.
(MIRA 13:3)

1. Iz kliniki propedevtiki detskikh bolezney (zaveduyushchiy - prof. V.A. Vlasov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova na baze Detskoy klinicheskoy bol'nitsy imeni N.F. Filatova (glavnyy vrach M.N. Kalugina).
(BEZOARS case reports)
(STOMACH neoplasms)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

KRIZOVSKAYA, N.I. (Moskva V-36, 1-ya Cheremushkinskaya ul., d.13, korp. 1, kv. 32)

Changes in the bones in acute leukemia in children. Vest. rent. i rad. 35 no. 6:50-55 N-D '60. (MIRA 14:2)

1. Iz rentgenovskogo otdeleniya (zav. A.I. Gingol'd) Detskoy klinicheskoy bol'nitsy imeni N.F. Filatova (glavnyy vrach L.A. Vorokhobov).

(LEUKEMIA) (BONE AND BONES)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

PUGACHEV, A.G., kand. med. nauk; KRIZOVSKAYA, M.I.; MALINDIA. L.I.

Clinical Xpray data in incomplete intestinal version. Pediatriia 42 no.3:25-30 Mr'63 (MIRA 17:2)

1. Iz khirurgicheskogo otdeleniya (zav. - kand. med. nauk A.G. Pugache ; nauchnyy konsul'tant - prof. S. Ya. Doletskiy) Instituta pediatrii (dir. M. Ya. Studenikin) AMN SSSR i Detskoy gorodskoy klinicheskoy bol'nitsy No.13 imeni N.F. Filatova (glavnyy vrach L.A.Vorokhobov), Moskva.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

DOMBRADI, Geza; KRIZSA, Ferenc; JANCSO, Tamas

Effect of extracts from the posterior lobe on water reabsorption by the small intestine. Kiserletes Orvostudomany 12 no.1:5-9 F '60.

1. Szegedi Orvostudomanyi Egyetem Elettani Intezete.
(PITUITARY GLAND POSTERIOR extracts)
(INTESTINE SMALL physiol)
(WATER metab.)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610020-6

DOMBRADI, G.A.; KRIZSA, F.; JANCSO, T.

Kinetics of intestinal water absorption in rats under the influence of ADH. Acta physiol.hung. 17 no.3:301-308 '60.

1. Physiologisches Institut der Medizinischen Universitat, Szeged.
(VASOPRESSIN pharmacol)
(INTESTINES physiol)
(WATER metab.)

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DOMBRADI, G.A.; KRIZSA, F.; JANCSO, T.; OBAL, F.

Analysis of intestinal absorption changes caused by posterior pituitary extracts in animals after the preliminary treatment with cortical hormones. Acta physiol.hung. 18 no.3:203-209 '60.

1. Physiologisches Institut der Medizinischen Universitat, Szeged.
(PITUITARY GLAND POSTERIOR hormones)
(ADRENAL CORTEX HORMONES pharmacol)
(INTESTINES physiol)
(WATER metab)

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CSERHATI, Istvan; KRIZSA, Ferenc; RAK, Kalman

The effect of a single dose of roentgen and ultraviolet irradiation on the thrombocyte count in mice. Kiserletes orvustud. 13 no.2: 135-137 My '61.

1. Szegedi Orvostudomnayi Egyetem I.sz.Bel-gyogyaszati Klinikaja.
(BLOOD PLATELETS radiation eff.)
(RADIATION EFFECTS expor.) (ULTRAVIOLET RAYS)

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RAK, Kalman; LEHOCZKY, Dezso; KRIZSA, Ferenc; CSERHATI, Istvan; KELEMEN, Endre

Thrombocytosis in mice caused by the blood serum of hematological patients. Magy. belorv. arch. 14 no.5:194-197 O '61.

1. Az Orvostudomanyi Egyetem I Belklinikaja, Szeged es Orvostovabbkepzo Intezet, Budapest koslemenye.

(BLOOD PLATELETS) (BLOOD DISEASES)

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AUTHORS: Rák Kálmán, Krizsa Frerenc, Sövényi Ervin, Cserháti István (Doctors)

TITLE: The effects of ultraviolet therapy on the survival of X-ray irradiated mice

PERIODICAL: Magyar Radiologia, no.1, 1962, 48-51

TEXT: It was observed by the authors that exposure of the entire body of mice to 300 r X-rays after treatment by U.V. did not produce thrombocytopenia. After massive X-ray doses (500, 550 and 600 r), the percentage of survival was significantly greater if U.V. therapy was performed 24 or 48 hours previously, and the number of survival days in single animals was also augmented. Several data show that the thrombopoetic action of U.V. irradiation was not coupled with the same effect of the serotonin. It is very likely that ultraviolet radiation has a protective effect against X-ray injuries.

ASSOCIATION: Internal and Röntgen Clinics of the University Hospital of Szeged, Hungary

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